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EXAMINER	
RILEY, MARCUS T	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/724,700	ARATANI ET AL.	
	Examiner	Art Unit	
	MARCUS T. RILEY	2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *20 November 2008*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-16* is/are pending in the application.

4a) Of the above claim(s) *1-8* is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *9-16* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *02 December 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *01/29/2004; 02/07/2008*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 20, 2008 has been entered.

Response to Amendment

2. This office action is responsive to applicant's remarks received on November 20, 2008. **Claims 9-16** are pending. **Claims 1-8** are cancelled.

Response to Arguments

3. Applicant's arguments with respect to amended claims 9, 12, 13, 15 &16 filed on November 20, 2008 have been fully considered but they are not persuasive.

A: Applicant's Remarks

For Applicant's remarks see *"Applicant Arguments/Remarks Made in an Amendment"* filed November 20, 2008.

A: Examiner's Response

Narushima, either taken alone or in combination with Tsumura teaches, discloses or suggests the applicant's claimed invention. Examiner understands that the *"print permission/inhibition information"* of applicant's invention to mean *"to enable permission or inhibition of printing of data to be controlled."* See "Abstract" of applicant's invention.

Narushima, as understood by Examiner, relates to a data broadcasting receiving and reproducing apparatus (*"This invention relates to* ***a digital broadcast reception system including a receiver for receiving digital broadcast display****, device for displaying digital broadcast received* ***by*** *a receiver and* ***a printer for printing the content information contained in the digital broadcast received by the receiver****. This invention also relates to a* ***digital broadcast printer for printing the contents information generated by the receiver which has received the digital broadcast.***" column 1, lines 9-17).

Furthermore, Narushima teaches, discloses or suggests "print permission/inhibition information" included in data broadcasting data that "indicates a set value for permission or inhibition of printing the content data". (See Figure 8 where the STB 30 includes a printer control signal interface 66, a contents information memory 67, a contents information conversion unit 68 and a contents information outputting unit 69. Not that the arrows Fig. 8 indicate the flow of a variety of signals, transmitted/received among various components making up the STB 30. *"The* ***printer control signal interface 66****, connected to a system bus provided in the STB 30, has the function of* ***transmitting/receiving printer control signals to or from the printer 32.*** *The* ***printer control signals are signals commanding the printer 32*** *connected to outside from the STB 30* ***to start or discontinue the print operation or specifying the size or contents of a picture for printing to the printer 32.*** *The* ***printer control signals are also signals for furnishing the information*** *such as for* ***completion of the printing operation****, shortage of printing sheets or ink, or stuffing of the printing sheets, from the printer 32 to the STB 30. By way of a specified operation,* ***the printer control signal interface 66 sends, on receipt of a command for printing start*** *by the user input to the I/O controller 63 over the system bus,* ***a printer control signal commanding the start of the printing operation to the printer 32****. When the printer 32 has completed the printing operation as regularly,* ***the printer control signal interface 66 receives*** *the information on completion of the printing operation sent from the printer 32 to* ***confirm that the***

printing operation has been finished as regularly." column 12, lines 18-28). See also (*"In the contents information memory 67,* ***the entire contents of the contents information displayed on the display device 31, that is the entire text*** *and picture data, may be transiently stored, or only a portion used for printing by the printer 32 of the contents information for display on the display device 31 may be transiently stored."* column 12, lines 66-67 thru column 13, lines 1-4).

Moreover, Tsumura, either taken alone or in combination teaches, discloses or suggests the data obtaining unit and the converting unit of Claim 9 (*"...****an information service processor comprises:*** *a communication connector, connected to a network, for receiving an information service unit consisting of a main body of information and attached* ***data that are provided by the broadcast communication means****..."* column 4, lines 26-32); See also (*"When the intent of use does not match the conditions,* ***the utilization manager instructs the information utilizer to inhibit the supply of information****. Under the control of the* ***utilization manager, the information utilizer decrypts the encrypted information****, reprocesses video information, speech information* ***or other types of information, converts information in consonance with the information use level, such as an image quality,*** *and superimposes information for a plurality of regions.* ***The information utilizer controls terminals, and also controls devices and converts information during printing and copying.****. The information service processor can further comprise an information generator that is connected between the terminal peripheral unit and the file device. The information generator automatically generates a frame of accompanying data rows relative to original information that does not have accompanying data,* ***so that an information frame can be prepared in the storage device to provide information****..."* column 3, lines 64-67 thru column 4, lines 1-8).

Accordingly, Examiner submits that Narushima either taken alone or in combination with Tsumura teaches, discloses or suggests the applicant's claimed invention. Thus, Claim 9 is not patentable.

Independent Claim 13 is a method claim corresponding to apparatus Claim 9, and is also not patentable. Accordingly, applicant's application is not in conditions for allowance.

The other claims in this application depend from one or the other of the independent claims and are not patentable for at least the same or similar reasons.

Claim Rejections - 35 USC § 112

(The previous claim rejection is withdrawn in light of the applicant's amendments.)

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. **Claims 9-11 and 13-15** are rejected under 35 U.S.C. 103(a) as being unpatentable over Narushima (US 6,774,951 hereinafter, Narushima '951) in combination with Tsumura et al. (US 5,842,023 hereinafter, Tsumura '023).

Regarding claim 9; Narushima '951 discloses a data broadcasting receiving and reproducing apparatus comprising (*"This invention relates to* ***a digital broadcast reception system including a receiver for receiving digital broadcast display****, device for displaying digital broadcast received by a receiver and* ***a printer for printing the content information contained in the digital broadcast received by the receiver****. This invention also relates to a* ***digital broadcast printer for printing the contents information generated by the receiver which has received the digital broadcast****."* column 1, lines 9-17):

a receiving unit configured to receive a digital broadcasting wave transmitted from a broadcasting station (See Figure 8 *"...in FIG. 8, the flow of a variety of signals, transmitted/received among various components making up the STB 30, is indicated by arrows. The* ***STB 30 may be configured for receiving a variety of digital broadcast, such as ground wave broadcast, satellite broadcast or wire broadcast****... In the CS digital broadcast, the contents information, such as moving picture information, still picture information and SI (service information),* ***are mixed as digital***

***signals by the transmitting stations, such as broadcasting stations**, various service providers and contents providers."* column 8, lines 52-65);

a data obtaining unit for obtaining data broadcasting data including displayable content data and text data including print permission/inhibition information of the content data wherein the print permission/inhibition information indicates a set value for permission or inhibition of printing the content data (See Figure 8 where the STB 30 includes a printer control signal interface 66, a contents information memory 67, a contents information conversion unit 68 and a contents information outputting unit 69. Not that the arrows Fig. 8 indicate the flow of a variety of signals, transmitted/received among various components making up the STB 30. *"The **printer control signal interface 66**, connected to a system bus provided in the STB 30, has the function of **transmitting/receiving printer control signals to or from the printer 32**. The **printer control signals are signals commanding the printer 32** connected to outside from the STB 30 **to start or discontinue the print operation or specifying the size or contents of a picture for printing to the printer 32.** The **printer control signals are also signals for furnishing the information** such as for **completion of the printing operation**, shortage of printing sheets or ink, or stuffing of the printing sheets, from the printer 32 to the STB 30. By way of a specified operation, **the printer control signal interface 66 sends, on receipt of a command for printing start** by the user input to the I/O controller 63 over the system bus, **a printer control signal commanding the start of the printing operation to the printer 32.** When the printer 32 has completed the printing operation as regularly, **the printer control signal interface 66 receives** the information on completion of the printing operation sent from the printer 32 to **confirm that the printing operation has been finished as regularly."*** column 12, lines 18-28). See also (*"In the contents information memory 67, **the entire contents of the contents information displayed on the display device 31, that is the entire text** and picture data, may be transiently stored, or only a portion used for printing by the printer 32 of the contents information for display on the display device 31 may be transiently stored."* column 12, lines 66-67 thru column 13, lines 1-4);

a storing unit for storing the data broadcasting data obtained by said data obtaining unit (*"The STB 30 may be configured for transiently holding the desired contents information in the **contents information memory 67** depending on a user command, or may be configured for updating the contents information comprehended in the received digital broadcast from time to time **to store the occasionally updated contents information in the contents information memory** 67."* column 12, lines 59-65);

a setting information obtaining unit for obtaining, from the text data stored in the data storing unit, the print permission/inhibition information of the content data (*"In the* ***contents information memory 67, the entire contents of the contents information displayed on the display device 31, that is the entire text and picture data, may be transiently stored,*** *or only a portion used for printing by the printer 32 of* ***the contents information for display on the display device 31 may be transiently stored.*** *Specifically, only a portion of the picture data comprehended in the moving pictures* ***data may be stored in the contents information memory 67, instead of storing*** *the totality of the moving pictures data displayed on the display device 31 in the contents information memory 67... there may be transiently* ***stored in the contents information memory 67 not only the contents information for demonstration on the display device 31, but also the contents information for printing, linked to the contents information for demonstration,*** *that is the contents information comprehended in the printing-specific specified program channels or information addresses.* ***The contents information conversion unit 68 reads out the contents information for printing, from the various contents information transiently stored in the contents information memory 67,*** *and converts the contents of the contents information into contents suited to printing characteristics of the printer 32."* column 12, lines 1-2 thru column 13, lines 1-23).

Narushima '951 does not expressly disclose a converting unit for converting the set value indicated by the print permission/inhibition information obtained by the data obtaining unit from one permitting the printing the content data into one inhibiting the content data, or from one inhibiting the printing the content data into one permitting the printing the content data; wherein said converting unit converts the set value indicated by the print permission/inhibition information corresponding to the content data obtained by the data obtaining unit and stored in the data storing unit, based on a command information included in the digital broadcasting wave.

Tsumura '023 discloses a converting unit for converting the set value indicated by the print permission/inhibition information obtained by the data obtaining unit from one permitting the printing the content data into one inhibiting the content data, or from one inhibiting the printing the content data into one permitting the printing the content data (*"When the intent of use does not match the conditions,* ***the utilization manager instructs the information utilizer to inhibit the supply of information.*** *Under*

the control of the ***utilization manager, the information utilizer decrypts the encrypted information****, reprocesses video information, speech information* ***or other types of information, converts information in consonance with the information use level, such as an image quality,*** *and superimposes information for a plurality of regions.* ***The information utilizer controls terminals, and also controls devices and converts information during printing and copying.****"* column 3, line 64-67 thru column 4, lines 1-8);

wherein said converting unit converts the set value indicated by the print permission/inhibition information corresponding to the content data obtained by the data obtaining unit and stored in the data storing unit, based on a command information included in the digital broadcasting wave (*"****...an information service processor comprises:*** *a communication connector, connected to a network, for receiving an information service unit consisting of a main body of information and attached* ***data that are provided by the broadcast communication means...****"* column 4, lines 26-32); See also (*"When the intent of use does not match the conditions,* ***the utilization manager instructs the information utilizer to inhibit the supply of information.*** *Under the control of the* ***utilization manager, the information utilizer decrypts the encrypted information****, reprocesses video information, speech information* ***or other types of information, converts information in consonance with the information use level, such as an image quality,*** *and superimposes information for a plurality of regions.* ***The information utilizer controls terminals, and also controls devices and converts information during printing and copying.****. The information service processor can further comprise an information generator that is connected between the terminal peripheral unit and the file device. The information generator automatically generates a frame of accompanying data rows relative to original information that does not have accompanying data,* ***so that an information frame can be prepared in the storage device to provide information...****"* column 3, lines 64-67 thru column 4, lines 1-8).

Narushima '951 and Tsumura '023 are combinable because they are from same field of endeavor of digital broadcast systems (*"The present invention relates to an information service processor that supplies copyrighted multimedia digital information to a user via a broadcast communication network..."* Tsumura '023 at column 1, lines 5-7).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the printer systems as taught by Narushima '951 by adding a ~~management~~ converting unit for converting the set value indicated by the print permission/inhibition

information obtained by the data obtaining unit from one permitting the printing the content data into one inhibiting the content data, or from one inhibiting the printing the content data into one permitting the printing the content data; wherein said converting unit converts the set value indicated by the print permission/inhibition information corresponding to the content data obtained by the data obtaining unit and stored in the data storing unit, based on a command information included in the digital broadcasting wave as taught by Tsumura '023.

The motivation for doing so would have been because it advantageous to provide an information service processor that enables a user to rigorously manage supplied information so that such information can be used correctly (*"It is a second object of the present invention to provide an information service processor that enables a user to rigorously manage supplied information so that such information can be used correctly."* Tsumura '023 at column 1, lines 53-55).

Therefore, it would have been obvious to combine Narushima '951 with Tsumura '023 to obtain the invention as specified in claim 1.

Regarding claim 10; Narushima '951 discloses further comprising a transmitting unit for transmitting printable content data to a print device, based on the print permission/inhibition information obtained by said setting information obtaining unit (*"The* ***printer control signal interface 66,*** *connected to a system bus provided in the STB 30,* ***has the function of transmitting/receiving printer control signals to or from the printer 32. The printer control signals are signals commanding the printer 32*** *connected to outside from the STB 30 to start or discontinue* ***the print operation or specifying the size or contents of a picture for printing to the printer 32.***" column 12, lines 18-24).

Regarding claim 11; Narushima '951 discloses further comprising a rendering unit for rendering printable content data, wherein the content data rendered by the rendering unit is

transmitted by said transmitting unit to the print device (*"The **printer control signal interface 66,** connected to a system bus provided in the STB 30, **has the function of transmitting/receiving printer control signals to or from the printer 32. The printer control signals are signals commanding the printer 32** connected to outside from the STB 30 to start or discontinue **the print operation or specifying the size or contents of a picture for printing to the printer 32. The printer control signals are also signals for furnishing the information such as for completion of the printing operation**, shortage of printing sheets or ink, or stuffing of the printing sheets, from the printer 32 to the STB 30."* column 12, lines 18-28).

Regarding claim 13; Narushima '951 discloses a data broadcasting receiving and reproducing method comprising steps of (*"This invention relates to **a digital broadcast reception system including a receiver for receiving digital broadcast display**, device for displaying digital broadcast received by a receiver and **a printer for printing the content information contained in the digital broadcast received by the receiver**. This invention also relates to a **digital broadcast printer for printing the contents information generated by the receiver which has received the digital broadcast**."* column 1, lines 9-17):

receiving a digital broadcasting wave transmitted from a broadcasting station (See Figure 8 *"...in FIG. 8, the flow of a variety of signals, transmitted/received among various components making up the STB 30, is indicated by arrows. The **STB 30 may be configured for receiving a variety of digital broadcast, such as ground wave broadcast, satellite broadcast or wire broadcast**... In the CS digital broadcast, the contents information, such as moving picture information, still picture information and SI (service information), **are mixed as digital signals by the transmitting stations, such as broadcasting stations**, various service providers and contents providers."* column 8, lines 52-65);

obtaining data broadcasting data including displayable content data and text data including print permission/inhibition information of the content data wherein the print permission/inhibition information indicates a set value for permission or inhibition of printing the content data (See Figure 8 where the STB 30 includes a printer control signal interface 66, a contents information memory 67, a contents information conversion unit 68 and a contents information outputting unit 69. Not that the arrows Fig. 8 indicate the flow of a variety of signals, transmitted/received among various components making up the STB 30. *"The **printer control signal interface 66**, connected to a system bus provided in the STB 30, has the function of **transmitting/receiving printer***

control signals to or from the printer 32. *The* ***printer control signals are signals commanding the printer 32*** *connected to outside from the STB 30* ***to start or discontinue the print operation or specifying the size or contents of a picture for printing to the printer 32.*** *The* ***printer control signals are also signals for furnishing the information*** *such as for* ***completion of the printing operation***, *shortage of printing sheets or ink, or stuffing of the printing sheets, from the printer 32 to the STB 30. By way of a specified operation,* ***the printer control signal interface 66 sends, on receipt of a command for printing start*** *by the user input to the I/O controller 63 over the system bus,* ***a printer control signal commanding the start of the printing operation to the printer 32.*** *When the printer 32 has completed the printing operation as regularly,* ***the printer control signal interface 66 receives*** *the information on completion of the printing operation sent from the printer 32 to* ***confirm that the printing operation has been finished as regularly.***" column 12, lines 18-28). See also (*"In the contents information memory 67,* ***the entire contents of the contents information displayed on the display device 31, that is the entire text*** *and picture data, may be transiently stored, or only a portion used for printing by the printer 32 of the contents information for display on the display device 31 may be transiently stored."* column 12, lines 66-67 thru column 13, lines 1-4);

storing the data broadcasting data obtained in said data obtaining step (*"The STB 30 may be configured for transiently holding the desired contents information in the* ***contents information memory 67*** *depending on a user command, or may be configured for updating the contents information comprehended in the received digital broadcast from time to time* ***to store the occasionally updated contents information in the contents information memory*** *67."* column 12, lines 59-65);

obtaining, from the text data stored, the print permission/inhibition information of the content data (*"In the* ***contents information memory 67, the entire contents of the contents information displayed on the display device 31, that is the entire text and picture data, may be transiently stored,*** *or only a portion used for printing by the printer 32 of* ***the contents information for display on the display device 31 may be transiently stored.*** *Specifically, only a portion of the picture data comprehended in the moving pictures* ***data may be stored in the contents information memory 67, instead of storing*** *the totality of the moving pictures data displayed on the display device 31 in the contents information memory 67... there may be transiently* ***stored in the contents information memory 67 not only the contents information for demonstration on the display device 31, but also the contents information for printing, linked to the contents information for demonstration***, *that is the contents information comprehended in the printing-specific specified program channels or information addresses.* ***The contents information conversion unit 68 reads out the contents information for printing, from the various contents***

information transiently stored in the contents information memory 67, *and converts the contents of the contents information into contents suited to printing characteristics of the printer 32."* column 12, lines 1-2 thru column 13, lines 1-23).

Narushima '951 does not expressly disclose converting the set value indicated by the print permission/inhibition information obtained from one permitting the printing the content data into one inhibiting the printing the content data, or from one inhibiting the printing the content data into one permitting the printing the content data, wherein the set value indicated by the print permission/inhibition information corresponding to the content data obtained in said data obtaining step and stored in said data storing step is converted based on a command information included in the digital broadcasting wave.

Tsumura '023 discloses converting the set value indicated by the print permission/inhibition information obtained from one permitting the printing the content data into one inhibiting the printing the content data, or from one inhibiting the printing the content data into one permitting the printing the content data (*"When the intent of use does not match the conditions,* ***the utilization manager instructs the information utilizer to inhibit the supply of information.*** *Under the control of the* ***utilization manager, the information utilizer decrypts the encrypted information,*** *reprocesses video information, speech information* ***or other types of information, converts information in consonance with the information use level, such as an image quality,*** *and superimposes information for a plurality of regions.* ***The information utilizer controls terminals, and also controls devices and converts information during printing and copying."*** column 3, line 64-67 thru column 4, lines 1-8);

wherein the set value indicated by the print permission/inhibition information corresponding to the content data obtained in said data obtaining step and stored in said data storing step is converted based on a command information included in the digital broadcasting wave (*"...* ***an information service processor comprises:*** *a communication connector, connected to a network, for receiving an information service unit consisting of a main body of information and attached* ***data that are provided by the broadcast communication means..."*** column 4, lines 26-32); See also (*"When the intent of use does not match the conditions,* ***the***

utilization manager instructs the information utilizer to inhibit the supply of information*. Under the control of the* ***utilization manager, the information utilizer decrypts the encrypted information****, reprocesses video information, speech information* ***or other types of information, converts information in consonance with the information use level, such as an image quality,*** *and superimposes information for a plurality of regions.* ***The information utilizer controls terminals, and also controls devices and converts information during printing and copying.****. The information service processor can further comprise an information generator that is connected between the terminal peripheral unit and the file device. The information generator automatically generates a frame of accompanying data rows relative to original information that does not have accompanying data,* ***so that an information frame can be prepared in the storage device to provide information...****"* column 3, lines 64-67 thru column 4, lines 1-8).

Narushima '951 and Tsumura '023 are combinable because they are from same field of endeavor of digital broadcast systems (*"The present invention relates to an information service processor that supplies copyrighted multimedia digital information to a user via a broadcast communication network..."* Tsumura '023 at column 1, lines 5-7).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the printer systems as taught by Narushima '951 by adding converting the set value indicated by the print permission/inhibition information obtained from one permitting the printing the content data into one inhibiting the printing the content data, or from one inhibiting the printing the content data into one permitting the printing the content data, wherein the set value indicated by the print permission/inhibition information corresponding to the content data obtained in said data obtaining step and stored in said data storing step is converted based on a command information included in the digital broadcasting wave as taught by Tsumura '023. The motivation for doing so would have been because it advantageous to provide an information service processor that enables a user to rigorously manage supplied information so that such information can be used correctly (*"It is a second object of the present invention to provide an information service processor that enables a user to rigorously manage supplied information so that such information can be used correctly."*

Tsumura '023 at column 1, lines 53-55). Therefore, it would have been obvious to combine Narushima '951 with Tsumura '023 to obtain the invention as specified in claim 13.

Regarding claim 14; Narushima '951 discloses further comprising a step of transmitting printable content data to a print device, based on the print permission/inhibition information obtained in said setting information obtaining step (*"The* ***printer control signal interface 66,*** *connected to a system bus provided in the STB 30,* ***has the function of transmitting/receiving printer control signals to or from the printer 32. The printer control signals are signals commanding the printer 32*** *connected to outside from the STB 30 to start or discontinue* ***the print operation or specifying the size or contents of a picture for printing to the printer 32.****"* column 12, lines 18-24).

Regarding claim 15; Narushima '951 discloses further comprising a rendering step for rendering a printable content data, wherein the content data rendered in the rendering step ~~being~~ is transmitted in said transmitting step to the print device (*"The* ***printer control signal interface 66,*** *connected to a system bus provided in the STB 30,* ***has the function of transmitting/receiving printer control signals to or from the printer 32. The printer control signals are signals commanding the printer 32*** *connected to outside from the STB 30 to start or discontinue* ***the print operation or specifying the size or contents of a picture for printing to the printer 32. The printer control signals are also signals for furnishing the information such as for completion of the printing operation,*** *shortage of printing sheets or ink, or stuffing of the printing sheets, from the printer 32 to the STB 30."* column 12, lines 18-28).

Regarding claim 12; Narushima '951 as modified does not expressly disclose wherein the command information is transmitted as a broadcasting event included in the digital broadcasting wave, said converting is defined preliminary correspondingly to the broadcasting event received, and, by executing a script described in the text data, the set value indicated by the print permission/inhibition information is converted based on the command information.

Tsumura '023 discloses wherein the command information is transmitted as a broadcasting event included in the digital broadcasting wave, said converting is defined preliminary correspondingly to the broadcasting event received, and, by executing a script

described in the text data, the set value indicated by the print permission/inhibition information is converted based on the command information (*"...**an information service processor comprises:** a communication connector, connected to a network, for receiving an information service unit consisting of a main body of information and attached **data that are provided by the broadcast communication means...**"* column 4, lines 26-32); See also (*"When the intent of use does not match the conditions, **the utilization manager instructs the information utilizer to inhibit the supply of information.** Under the control of the **utilization manager, the information utilizer decrypts the encrypted information**, reprocesses video information, speech information **or other types of information, converts information in consonance with the information use level, such as an image quality,** and superimposes information for a plurality of regions. **The information utilizer controls terminals, and also controls devices and converts information during printing and copying.**. The information service processor can further comprise an information generator that is connected between the terminal peripheral unit and the file device. The information generator automatically generates a frame of accompanying data rows relative to original information that does not have accompanying data, **so that an information frame can be prepared in the storage device to provide information...**"* column 3, lines 64-67 thru column 4, lines 1-8).

Narushima '951 and Tsumura '023 are combinable because they are from same field of endeavor of digital broadcast systems (*"The present invention relates to an information service processor that supplies copyrighted multimedia digital information to a user via a broadcast communication network..."* Tsumura '023 at column 1, lines 5-7).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the printer systems as taught by Narushima '951 by adding wherein the command information is transmitted as a broadcasting event included in the digital broadcasting wave, said converting is defined preliminary correspondingly to the broadcasting event received, and, by executing a script described in the text data, the set value indicated by the print permission/inhibition information is converted based on the command information as taught by Tsumura '023. The motivation for doing so would have been because it advantageous to provide an information service processor that enables a user to rigorously manage supplied information

so that such information can be used correctly (*"It is a second object of the present invention to provide an information service processor that enables a user to rigorously manage supplied information so that such information can be used correctly."* Tsumura '023 at column 1, lines 53-55). Therefore, it would have been obvious to combine Narushima '951 with Tsumura '023 to obtain the invention as specified in claim 13.

Regarding claim 16; Tsumura '023 discloses wherein the command information is transmitted as a broadcasting event included in the digital broadcasting wave, said converting step is defined preliminary correspondingly to the broadcasting event received, and, by executing a script described in the text data the set value indicated by, the print permission/inhibition information is converted based on the command information (*"...**an information service processor comprises:** a communication connector, connected to a network, for receiving an information service unit consisting of a main body of information and attached **data that are provided by the broadcast communication means**..."* column 4, lines 26-32); See also (*"When the intent of use does not match the conditions, **the utilization manager instructs the information utilizer to inhibit the supply of information.** Under the control of the **utilization manager, the information utilizer decrypts the encrypted information**, reprocesses video information, speech information **or other types of information, converts information in consonance with the information use level, such as an image quality,** and superimposes information for a plurality of regions. **The information utilizer controls terminals, and also controls devices and converts information during printing and copying.**. The information service processor can further comprise an information generator that is connected between the terminal peripheral unit and the file device. The information generator automatically generates a frame of accompanying data rows relative to original information that does not have accompanying data, **so that an information frame can be prepared in the storage device to provide information**..."* column 3, lines 64-67 thru column 4, lines 1-8).

Examiner Notes

6. The Examiner cites particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant. Although the specified citations are

representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, the applicant fully considers the references in its entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or as disclosed by the Examiner.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARCUS T. RILEY whose telephone number is (571)270-1581. The examiner can normally be reached on Monday - Friday, 7:30-5:00, est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on 571-272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Marcus T. Riley
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